

IN THE ABSTRACT:

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ABSTRACT OF THE DISCLOSURE

A porous silicate granular material, especially as aggregate for the production of construction materials such as lightweight concrete, mortar or heat-insulating plaster containing glass and a glassy crystalline component includes 45 to 85 wt.% SiO_2 , 5 to 20 wt.% alkali oxide, 5 to 30 wt. % alkaline earth oxide and 2 to 30 wt.% of other oxides such as Al_2O_3 and/or Fe_2O_3 . The glassy crystalline component accounts for 5 to 75 wt.% of the granular material. The glassy crystalline component of the granular material is a sinter reaction product. There is also a method of producing such a granular material in which the mixture is agglomerated at a temperature of 20°C to 150°C at normal pressure with the water vapour partial pressure being adjusted, selected or controlled as a function of time-temperature and carbon dioxide being excluded or admitted, whereby the admission of carbon dioxide is controlled by adjusting or selecting the carbon dioxide partial pressure.